

Amendments to the Specification:

Please amend paragraph [0017] as follows:

[0017] FIG. 2 shows schematically an embodiment of the device according to the invention comprising control means. The electrode assembly I is provided with three outputs, 2a, 4a and 4b. The output 2a is a signal output from the electrode yielding the first signal S to be processed by the electronics (not shown) of the device according to the invention. The signal from the output 4a, 4b of the pressure sensor, defined previously as the second signal, is supplied to the input of an amplifier amplified 8. The amplified signal M, characteristic to the motion artifact, is then processed by a high pass filter 10, a full wave rectifier 12 and a low pass filter 14. The resulting signal is then supplied to the input of control means 16, where the second signal is further processed. According to the invention the control means 16 is arranged to actuate the motion artifact correction means 20 upon an occurrence of a predetermined event. Examples of the predetermined event are an actuation of a motion-correction button on a user interface (not shown), an actuation of a voice recognition routine on a user interface where a demand to switch on the motion artifact correction is recognized. In a preferred embodiment the event corresponds to the second signal exceeding a predetermined threshold level. Preferably the corresponding threshold is stored in a memory unit 18. Upon an occurrence of the event the motion artifact correction means 20 are actuated and the motion artifact correction is carried out. For this purpose the first signal S and the processed second signal M are supplied to the input of the motion artifact correction means 20.

Please amend paragraph [0018] as follows:

[0018] FIG. 3 shows schematically an embodiment of the motion artifact correction means according to the invention for a case where a plurality of electrode assemblies 1a, 1b are arranged on the body of the individual (not shown). The second signals M1, M2 related to the motion artifact of the electrodes 1a and 1b are amplified by means of the input amplifiers 8a, 8b. At the next step the signals M1, M2 are subtracted from each other by a first subtracting means 21 to obtain an average value of the signal to rule out electrode's differences. The resulting averaged second signal M is processed together with the first signal S by the

motion artifact correction means 25, comprising an adaptive filter 22 and a second subtracting means 24. The resulting signal is the corrected first signal which is supplied to the processing means 26 of the device according to the invention. Preferably the motion artifact correction means comprises a linearization element 27 (not shown) carrying out a linearization of the second signals M1 and M2. The linearized second signal is then supplied to the linear input of the adaptive filter 22.